

PART 19 - Unbundled Network Elements and Number
Portability

SECTION 16 - Unbundled Sub-Loops

1st Revised Sheet No. 1

1. UNBUNDLED SUB-LOOPS

(N)

A. DESCRIPTION

General

Ameritech Illinois makes availability to telecommunications carriers Unbundled Network Element (UNE) "sub-loops". These sub-loops are offered by Ameritech Illinois ("the Company") to meet unbundling obligations required by Federal Communications Commission (FCC) Order 99-238 and Section 251 of the Telecommunications Act of 1996.

Applicable sub-loops are only available to telecommunications carriers for use in the provision of a telecommunications service as specified and to the extent required by the Telecommunications Act of 1996, Pub. L. No. 104-104, 110 Stat. 56 (1996) ("the Act") and the rules and regulations of the FCC and the Illinois Commerce Commission.

Sub-Loops are non-competitive telecommunications services which are offered in exchanges in Illinois as defined in Part 4, Section 2, of this tariff.

General Regulations as found in Part 2 of this Tariff and Section 1 of this Part apply to this Section unless otherwise specified in this Section. The term "customer," which appears in Part 2 General Regulations, is the equivalent of the term "telecommunications carrier" as used in this Section.

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1. UNBUNDLED SUB-LOOPS (cont'd)

(N)

A. DESCRIPTION (cont'd)

General (cont'd)

This Section contains a schedule of rates and regulations applicable to the sub-loops. Currently the following types of sub-loops are available.

Analog

- 2-Wire Sub-Loop
- 4-Wire Sub-Loop

Digital

- 2-Wire 160 Kbps (ISDN-BRI) Sub-Loop
- 4-Wire 1.544 Mbps (DS-1) Sub-Loop
- 2-Wire xDSL Sub-Loop
- 4-Wire xDSL Sub-Loop
- DS3 Sub-Loop

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Telecommunications carriers will be able to obtain sub-loops from the Company where facilities are available. The Company is not required to build additional space or construct new sub-loop facilities as a result of a sub-loop service order request.

Service Description

A sub-loop is defined in FCC Order 99-238 as portions of the loop that can be accessed, in a technically feasible manner, at terminals in the incumbent's outside plant. An accessible terminal is a point on the loop where technicians can access the wire within the cable without removing a splice case to reach the wire within. As a result, the Company will provide telecommunications carriers the capability to purchase sub-loops and connect at locations in the loop network referred to as "sub-loop connection points".

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1. UNBUNDLED SUB-LOOPS (cont'd)

(N)

A. DESCRIPTION (cont'd)

Service Description (cont'd)

FCC 99-238 states that the incumbent LECs are required to condition xDSL sub-loops so as to allow requesting carriers to offer advanced services. This "conditioning" consists of the removal of bridge taps, low-pass filters, range extenders and similar devices. As a result, sub-loop conditioning, when necessary, will be performed for telecommunications carriers ordering xDSL sub-loops.

Ameritech Illinois will consider, pursuant to the BFR process, telecommunications carrier requests to obtain access at points in Ameritech Illinois's network other than those identified herein, where such access may be technically feasible.

Sub-loop connection points are

- Central Office/Main Distribution Frame (MDF) or Central Office (CO)
- Remote Terminal (RT)
- Serving Area Interface/Feeder Distribution Interface (SAI/FDI)
- Terminal (TERM)
- Network Interface Device (NID)
- Single Point of Interface (SPOI)

The transmission parameters associated with the types of sub-loops below are contained in the Ameritech Technical References listed in D. following.

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1. UNBUNDLED SUB-LOOPS (cont'd)

(N)

B. DEFINITIONS

Analog Sub-Loops

- A 2-wire Analog Sub-Loop facilitates transmission of voice grade signals.
- A 4-wire Analog Sub-Loop facilitates transmission of voice grade signals using separate transmit and receive paths.

Digital Sub-Loops

- A 2-wire 160 Kbps Digital Sub-Loop (ISDN-BRI) facilitates transmission of digital signals at 160 Kbps and provides 2B+D channels using 2B1Q Protocol.
- A 4-wire 1.544 Mbps (DS-1) Sub-Loop facilitates transmission of digital signals at 1.544 Mbps.
- A 2-wire xDSL Sub-Loop facilitates transmission of digital signals.
- A 4-wire xDSL Sub-Loop facilitates transmission of digital signals.
- A DS3 sub-loop provides a digital, 45 Mbps transmission path.

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1. UNBUNDLED SUB-LOOPS (cont'd)

(N)

C. TERMS AND CONDITIONS

1. Maintenance

The sub-loop will be maintained in accordance with the technical specifications referenced in D.

2. Ordering

- The Company will provide telecommunications carriers with electronic access to place service orders. Application of service order types and applicable rates are shown in E. following.
- Sub-Loops will be provisioned in accordance with the technical specifications referenced in D.
- Prior to ordering sub-loop facilities, telecommunications carriers will be required to establish collocations and/or the sub-loop connection arrangement(s) necessary to connect to the Company's sub-loop network. Collocation applicable to sub-loops will be provided via a nonstandard collocation request.

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1. UNBUNDLED SUB-LOOPS (cont'd)

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C. TERMS AND CONDITIONS (cont'd)

2. Ordering (cont'd)

The Company will provide access to its unbundled sub-loops at various technically feasible connection points (terminals and/or termination points) within the Company's network. The identified connection points are identified in *Service Description* above, and the telecommunications carrier may request access to the Company's loop plant at the following sub-loop connection points:

A) MDF or CO to	RT
B) MDF or CO to	SAI/FDI
C) MDF or CO to	TERM
D) RT to	SAI/FDI
E) RT to	TERM
F) RT to	NID
G) SAI/FDI to	TERM
H) SAI/FDI to	NID
I) TERM to	NID
J) NID only	
K) SPOI to	Demarc at the End User CPE

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Note: When a telecommunications carrier requests SPOI access, a Bona Fide Request (BFR) must be completed by the telecommunications carrier. Analysis must be completed on a case by case basis.

- The Ameritech Cross-Connect Service rate, shown in E. following, is applicable when a sub-loop is cross-connected to equipment. It is applied per sub-loop cross-connect, based on the type of sub-loop.

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1. UNBUNDLED SUB-LOOPS (cont'd)

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C. TERMS AND CONDITIONS (cont'd)

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2. Ordering (cont'd)

- Network Interface Device
Where the telecommunications carrier desires access to the Network Interface Device (NID) so that it may gain access to an end user customer's inside wire. The NID establishes the final network demarcation point between the sub-loop and the end user customer's inside wire. The Company will permit the telecommunications carrier to connect the telecommunications carrier's own loop or sub-loop to the inside wiring of the end user customer's premises through the Company NID. The telecommunications carrier must establish the connection through an adjoining telecommunications provider's NID which serves as the Network Interface (NI) or demarcation for its sub-loop.

Maintenance and control of the end user customer owned inside wire is under the control of the end user customer. Conflicts between telecommunications providers for access to the end user customer owned inside wire must be resolved by the end user customer and the respective telecommunications providers.

In no instance may the telecommunications carrier disconnect the Company's loop or sub-loop or the ground wire from the Company's NID, or enclosures or protectors nor will the Carrier's NID be considered part of the Company's transmission path.
- SPOI to Demarcation Point
Single Point of Interface (SPOI) to demarcation involves the use of inside wire at the customer's premises. Inside wire is a generic term describing various (intra and inter) building cabling arrangements. Inside wire varies widely in length due to the type of building it is placed in. As a result, inside wire will be offered on a Bona Fide Request (BFR) basis.
- Digital Subscriber Line Conditioning (xDSL Sub-Loop Conditioning)
Conditioning for unbundled xDSL sub-loops will be done in the same manner as for unbundled xDSL loops.

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1. UNBUNDLED SUB-LOOPS (cont'd)

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D. TECHNICAL REFERENCES

Sub-loops are provided in accordance with the specifications, interfaces, and parameters described in the technical references listed below. The Company's sole obligation under this tariff is to provide sub-loops in accordance with such specifications, interfaces, and parameters. The Company does not warrant that its sub-loops are compatible with any telecommunications carrier specific facilities or equipment or can be used for any particular purpose or service. Telecommunications carriers ordering sub-loops are responsible for obtaining or providing facilities and equipment that are compatible with such sub-loops. The following published specifications, procedures and practices used by the Company in its network are listed here in order to assist the telecommunications carrier meet its responsibility.

<u>Subject</u>	<u>Technical Reference</u>
Ameritech Unbundled Analog Loops	AM TR TMO 000 122
Ameritech Unbundled Digital Loops	AM TR TMO 000 123

The Technical References can be obtained from:

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1. UNBUNDLED SUB-LOOPS (cont'd)

(N)

E. RATE APPLICATION

Sub-Loop Rates and Charges are shown in F. Prices following. Rates are applied as follows:

Unbundled Sub-Loop Rates and Charges

Rates and charges for unbundled Sub-Loops are applied on an individual Sub-Loop basis.

Service Charges

Service Order Charges

• Establish

This charge is applicable when sub-loops are ordered. One charge per order.

• Sub-Loop Line Connection Charge

This charge is applicable for each sub-loop that is ordered.

Sub-Loop Conditioning Charges (xDSL Only)

Assessed for the telecommunications carrier requested condition of sub-loops. Charges are assessed based on the type and amount of conditioning required and the length of the facility being conditioned.

Ameritech Cross-Connection Service

Ameritech Cross-Connection Service rates are applicable when Sub-Loops are provisioned to be cross-connected to the telecommunications carrier's equipment. It is applied per sub-loop cross-connect, based on the type of sub-loop.

Service Coordination Fee

A Service Coordination Fee is a monthly rate element applicable to each telecommunications carrier ordering a sub-loop(s) on a per bill, per telecommunications carrier basis.

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1. UNBUNDLED SUB-LOOPS (cont'd)

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F. PRICES

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1. Service Elements

Description	Monthly Payment		
	Access Area ^{/1/}		
	A	B	C
Unbundled Sub-loop Rates and Charges			
<u>Analog</u>			
2-Wire Sub-Loop			
- MDF or CO to RT	\$3.72	\$ 5.50	\$ 6.73
- MDF or CO to SAI/FDI	3.70	6.98	7.83
- MDF or CO to Terminal	3.68	11.27	16.51
- RT to SAI/FDI	.99	1.64	1.70
- RT to Terminal	.98	5.93	10.38
- RT to NID	2.14	7.36	11.84
- SAI/FDI to Terminal	1.94	6.00	9.89
- SAI/FDI to NID	3.08	7.41	11.36
- Terminal to NID	1.75	2.04	2.08
- NID only	-	-	-
- SPOI to Demarc	/2/	/2/	/2/
4-Wire Sub-Loop			
- MDF or CO to RT	7.71	14.13	16.62
- MDF or CO to SAI/FDI	7.70	17.18	18.85
- MDF or CO to Terminal	7.74	25.73	36.19
- RT to SAI/FDI	2.00	3.34	3.35
- RT to Terminal	2.03	11.88	20.70
- RT to NID	4.36	14.74	23.64
- SAI/FDI to Terminal	3.93	11.99	19.76
- SAI/FDI to NID	6.25	14.84	22.70
- Terminal to NID	3.56	4.09	4.17
- NID only	-	-	-
- SPOI to Demarc	/2/	/2/	/2/

/1/ Access Areas by exchange are shown in Part 4, Section 2 of this tariff.
/2/ Pricing for this rate element is subject to a Bona Fide Request (BFR) process.

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1. UNBUNDLED SUB-LOOPS (cont'd)

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F. PRICES (cont'd)

1. Service Elements (cont'd)

Description	Monthly Payment		
	Access Area ^{/1/}		
	A	B	C
Unbundled Sub-loop Rates and Charges (cont'd)			
Digital			
2-Wire 160 Kbps (ISDN-BRI) Sub-Loop			
- MDF or CO to RT	\$ 9.55	\$11.69	\$15.30
- MDF or CO to SAI/FDI	-	-	-
- MDF or CO to Terminal	-	-	-
- RT to SAI/FDI	-	-	-
- RT to Terminal	-	-	-
- RT to NID	2.14	7.36	11.84
- SAI/FDI to Terminal	-	-	-
- SAI/FDI to NID	-	-	-
- Terminal to NID	-	-	-
- NID only	-	-	-
- SPOI to Demarc	/2/	/2/	/2/
4-Wire DS-1 (1.544 Mbps) Sub-Loop			
- MDF or CO to RT	80.71	79.21	93.21
- MDF or CO to SAI/FDI	-	-	-
- MDF or CO to Terminal	-	-	-
- RT to SAI/FDI	-	-	-
- RT to Terminal	-	-	-
- RT to NID	22.88	33.15	42.04
- SAI/FDI to Terminal	-	-	-
- SAI/FDI to NID	-	-	-
- Terminal to NID	-	-	-
- NID only	-	-	-
- SPOI to Demarc	/2/	/2/	/2/

(N)

/1/ Access Areas by exchange are shown in Part 4, Section 2 of this tariff.

/2/ Pricing for this rate element is subject to a Bona Fide Request (BFR) process.

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1. UNBUNDLED SUB-LOOPS (cont'd)

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F. PRICES (cont'd)

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1. Service Elements (cont'd)

Description	Monthly Payment		
	Access Area ^{/1/}		
	A	B	C
Unbundled Sub-loop Rates and Charges (cont'd)			
Digital (cont'd)			
2-Wire xDSL Sub-Loop			
- MDF or CO to RT	-	-	-
- MDF or CO to SAI/FDI	\$3.54	\$ 6.73	\$ 6.84
- MDF or CO to Terminal	3.53	11.02	15.52
- RT to SAI/FDI	.99	1.64	1.70
- RT to Terminal	.98	5.93	10.38
- RT to NID	2.14	7.36	11.84
- SAI/FDI to Terminal	1.94	6.00	9.89
- SAI/FDI to NID	3.08	7.41	11.36
- Terminal to NID	1.75	2.04	2.08
- NID only	-	-	-
- SPOI to Demarc	/2/	/2/	/2/
4-Wire xDSL Sub-Loop			
- MDF or CO to RT	-	-	-
- MDF or CO to SAI/FDI	6.77	13.17	13.33
- MDF or CO to Terminal	6.80	21.71	30.68
- RT to SAI/FDI	2.00	3.34	3.35
- RT to Terminal	2.03	11.88	20.70
- RT to NID	4.36	14.74	23.64
- SAI/FDI to Terminal	3.93	11.99	19.76
- SAI/FDI to NID	6.25	14.84	22.70
- Terminal to NID	3.56	4.09	4.17
- NID only	-	-	-
- SPOI to Demarc	/2/	/2/	/2/

(N)

/1/ Access Areas by exchange are shown in Part 4, Section 2 of this tariff.

/2/ Pricing for this rate element is subject to a Bona Fide Request (BFR) process.

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1. UNBUNDLED SUB-LOOPS (cont'd)

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F. PRICES (cont'd)

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1. Service Elements (cont'd)

Description	Monthly Payment		
	Access Area ^{/1/}		
	A	B	C
Unbundled Sub-loop Rates and Charges (cont'd)			
<u>Digital (cont'd)</u>			
DS3 Sub-Loop			
- MDF or CO to RT	\$537.15	\$865.98	\$871.00
- MDF or CO to SAI/FDI	-	-	-
- MDF or CO to Terminal	-	-	-
- RT to SAI/FDI	-	-	-
- RT to Terminal	-	-	-
- RT to NID	537.15	865.98	871.00
- SAI/FDI to Terminal	-	-	-
- SAI/FDI to NID	-	-	-
- Terminal to NID	-	-	-
- NID only	-	-	-
- SPOI to Demarc	/2/	/2/	/2/

(N)

/1/ Access Areas by exchange are shown in Part 4, Section 2 of this tariff.
/2/ Pricing for this rate element is subject to a Bona Fide Request (BFR) process.

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F. PRICES (cont'd)

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1. Service Elements (cont'd)

Description	Nonrecurring Charge
Sub-Loop Line Connection Charge	
- 2-Wire Analog Sub-loop	\$238.21
- 4-Wire Analog Sub-loop	239.27
- 2-Wire xDSL Digital Sub-loop	274.66
- 4-Wire xDSL Digital Sub-loop	279.25
- 2-Wire ISDN Digital Sub-loop	305.92
- 4-Wire DS-1 (1.544 Mbps) Digital Sub-loop	513.73
- DS3 Sub-loop	677.02

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1. UNBUNDLED SUB-LOOPS (cont'd)

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F. PRICES (cont'd)

1. Service Elements (cont'd)

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Description	Nonrecurring Charge	Monthly Charge
<u>Service Ordering Charges</u>		
Establish, per occasion	\$ 13.17 ^{/1/}	
<u>Service Coordination Fee</u>		
per carrier bill, per telecommunications carrier	-	\$1.15 ^{/1/}
<u>Ameritech Cross-Connection Service</u>		
per loop cross-connected (based on interface type) to transmission equipment and/or transport provided by the telecommunications carrier	See Part 23, Section 4	-
<u>Sub-Loop Conditioning Charge (xDSL Only)</u>		
For Sub loop Facilities > 12 Kft and < 17.5 Kft		
- Removal of Bridged Tap(s)	568.68	-
- Removal of Repeater(s)	144.82	-
- Removal of Load Coil(s)	569.62	-
- Removal of Range Extender(s)	3.74	-
- Removal of Low Pass Filter(s)	3.74	-
For Sub loop Facilities > 17.5 Kft, in addition to amounts above for >12 Kft and < 17.5 Kft		
- Removal of Bridged Tap(s)	458.41	-
- Removal of Repeater(s)	178.87	-
- Removal of Load Coil(s)	743.85	-

/1/ Rates already established in Part 19, Section 2, of this tariff.

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